2184 #3 12.27-02



DOCKET NO.: S01448.70000.US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

AWAD et al. 09/925,194

Serial No: Confirmation, No.:

4327

Filed:

August 8, 2001

For:

METHOD AND APPARATUS FOR PROVIDING AN ERROR

CHARACTERIZATION ESTIMATE OF AN IMPULSE RESPONSE

DERIVED USING LEAST SQUARES

Examiner:

Robert W. Beausoliel Jr.

Art Unit:

2184

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 3 day of December, 2002.

Denise M. Donahue

Commissioner For Patents Washington, D.C. 20231

Sir:

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Transmitted herewith are the following documents:

Technology Center 2100

- [X] Information Disclosure Statement
- [X] PTO Form 1449 with cited references
- [X] Copy of International Search Report dated November 13, 2002
- [X] Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

AWAD et al., Applicants

John M. Anastasi, Reg. No.: 37,765

Wolf, Greenfield & Sacks, P.C.

600 Atlantic Avenue

Boston, Massachusetts 02210-2211

Telephone: (617)720-3500

Docket No. S01448.70000.US Date: December \(\frac{\mathbf{3}}{2} \), 2002

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Denise M. Donahue

Commissioner for Patents Washington, D.C. 20231

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Compliance with 37 CFR §1.704(d)

Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart application and this 665793.1

communication was not received by the office of the undersigned more than 30 days prior to filing of this Information Disclosure Statement.

PART III: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The Applicant would like to bring to the Examiner's attention the enclosed Search Report from a corresponding International Application No. PCT/CA02/01141.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
- 3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted, AWAD et al., Applicants

By:

John N. Anastasi, Reg. No. 37,765 Wolf, Greenfield & Sacks, P.C.

600 Atlantic Avenue

Boston, Massachusetts 02210-2211

Telephone: (617) 720-3500

Docket No. S01448.70000.US Date: December **\3**, 2002

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FORM PTO-1449 A and B (Modified)	APPLICATION NO.:	09/925,194	ATTY. DOCKET NO.: S01448.70000.US
INFORMATION DISCLOSURE	FILING DATE:	August 8, 2001	CONFIRMATION NO.: 4327
STATEMENT BY APPLICANT	APPLICANT:	AWAD et al.	
Sheet of	GROUP ART UNIT:	2184	EXAMINER: Robert W. Beausoliel Jr.

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited	Date of Publication or of issue
		Number	Kind Code	Document	of Cited Document MM-DD-YYYY
	1	5,062,102		Taguchi	10-29-1991
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Technology Center 2100

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite	Foreign Patent Document		ıment	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
	No.	Office/ Country	Number	Kind Code	Document (not necessary)	Cited Document MM-DD-YYYY	(Y/N)
	2	EP	0872962	A2	Nokia Mobile Phones LTD.	10-21-1998	N
	3	GB	2164828	Α	International Standard Electric Corp.	03-26-1986	N
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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Cite	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item	Translation
No	(book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s),	(Y/N)
	publisher, city and/or country where published.	
4	Deisher M E et al., "Practical Considerations in the Implementation of a Frequency-Domain Adaptive Noise	
	Canceller", IEEE Transactions on Circuits and Systems, II: Analog and Digital Signal Processing, IEEE Inc.	
	New York, US, vol. 41, no. 2, February 1, 1994, pages 164-168, XP000443037	
•		
	1	No (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published. 4 Deisher M E et al., "Practical Considerations in the Implementation of a Frequency-Domain Adaptive Noise Canceller", IEEE Transactions on Circuits and Systems, II: Analog and Digital Signal Processing, IEEE Inc.

EXAMINER	DATE CONSIDERED

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.